

APPENDIX 8S

UNITIZATION PROCEDURES FOR BOXED AMMUNITION AND COMPO- NENTS ON 4-WAY ENTRY PALLETS

**CARTRIDGE, CALIBER .30, PACKED VARIOUS
QUANTITIES IN M19 SERIES METAL CONTAINER, 4
CONTAINERS PER WIREBOUND BOX, UNITIZED 40
BOXES PER 35" X 45-1/2" PALLET; APPROX BOX
SIZE 17-1/2" L X 11-1/2" W X 8-1/8" H**

**NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION
PROCEDURES DRAWING 19-48-4116-20PA1002.**

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U.S. ARMY MATERIEL COMMAND DRAWING

<p style="text-align: center;">APPROVED, U.S. ARMY FIELD SUPPORT COMMAND <i>TPR</i></p> <p style="text-align: center;"><i>David G. Ruskovick</i> AMSRD-AAR-AIL-TP</p>	<p>CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</p>											
<p style="text-align: center;"><i>M. F. Carter</i> AMSF5-ST</p>	<p>DO NOT SCALE</p>		<p>APRIL 1980</p>									
<p style="text-align: center;">APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	ENGINEER OR TECHNICIAN	BASIC REV.	<p style="text-align: center;">WILLIAM FRERICHS</p> <p style="text-align: center;">MELVIN SIX</p>	<p style="text-align: center;">REVISION NO. 1</p> <p style="text-align: center;">SEPTEMBER 2005</p>								
	TRANSPORTATION ENGINEERING DIVISION		<p style="text-align: center;"><i>G. L. Willis</i></p>	<p>SEE THE REVISION LISTING ON PAGE 2</p>								
	VALIDATION ENGINEERING DIVISION		<p style="text-align: center;"><i>[Signature]</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">CLASS</td> <td style="width: 15%;">DIVISION</td> <td style="width: 15%;">DRAWING</td> <td style="width: 15%;">FILE</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> <td style="text-align: center;">4116/ 8S</td> <td style="text-align: center;">20PA1002</td> </tr> </table>	CLASS	DIVISION	DRAWING	FILE	19	48	4116/ 8S	20PA1002
CLASS	DIVISION	DRAWING	FILE									
19	48	4116/ 8S	20PA1002									
	ENGINEERING DIRECTORATE		<p style="text-align: center;"><i>[Signature]</i></p>									

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1305-00-028-6558	A225	1.4	S	2,473
00-602-2193	A222	1.4	S	2,432

*HAZARD AND CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING(S).

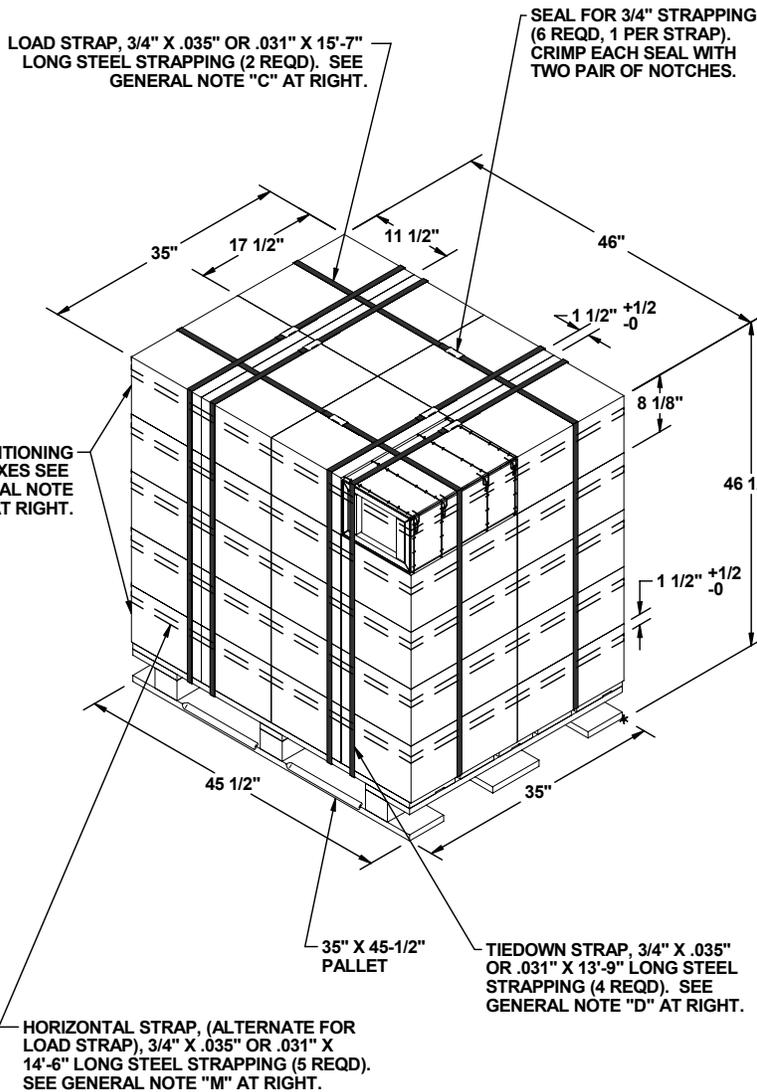
REVISION

REVISION NO. 1, DATED SEPTEMBER 2005, CONSISTS OF:

1. REMOVING ITEM BY NSN FROM THE "PALLET UNIT DATA" CHART.
2. UPDATING DRAWING FORMAT.
3. UPDATING NUMBER OF BOXES ON THE PALLET.
4. UPDATING BOX DIMENSIONS.

GENERAL NOTES

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCEDURES ARE SPECIFIED IN THIS APPENDIX.
- B. DIMENSIONS, CUBE AND WEIGHT OF A PALLET UNIT WILL VARY SLIGHTLY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE BOXES AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- C. THE LOAD STRAPS MAY BE THREADED THROUGH THE STRAP SLOTS OF A PALLET OR PRE-POSITIONED ON THE TOP DECK PRIOR TO PLACING BOXES ON THE PALLET. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE SIDE CLEATS OF THE END PANELS OF THE BOX. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE HORIZONTAL STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR UNLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.
 - CARLOADING - - - - 19-48-4115-5PA1002s
 - TRUCKLOADING - - - - 19-48-4117-11PA1003
 - STORAGE - - - - - 19-48-4118-1-2-3-4-14-22PA1002
 - END OPENING ISO CONTAINER - - - - 19-48-4153-15PA1002
 - MILVAN - - - - - 19-48-4166-15PA1003
 - SIDE OPENING ISO CONTAINER - - - - 19-48-4267-15PA1009
- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS REVISION TO THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING .30 CALIBER CARTRIDGES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON PAGE 2, PROVIDED THE BOX PACK DOES NOT VARY FROM WHAT IS DELINEATED HEREIN. THE EXPLOSIVE CLASSIFICATION OF OTHER ITEMS MAY BE DIFFERENT THAN WHAT IS SHOWN.
- H. THE STYLE 1A PALLET DELINEATED IN THE DETAIL AT LEFT NEED NOT HAVE CHAMFERS OR STRAP SLOTS AS SPECIFIED WITHIN MILITARY SPECIFICATION MIL-P-15011 WHEN USED FOR THE UNITIZATION OF ITEMS COVERED BY THIS APPENDIX.
- J. FOR DETAILS OF THE PPP-B-585 WIREBOUND BOX SEE ARDEC DRAWING 7553347.
- K. IF DEEMED MORE ECONOMICALLY FEASIBLE, THE ALTERNATIVE FILLER ASSEMBLY MAY BE SUBSTITUTED FOR THE FILLER ASSEMBLY TO COMPLETE A LAYER ON A PALLET.
- L. POSITION THE TWO OUTBOARD BOXES ON THE 35" SIDES OF THE BOTTOM LAYER OF THE UNIT WITH THE TOPS DOWNWARD AND THE TWO OUTBOARD BOXES ON THE 35" SIDES OF THE TOP LAYER OF THE UNIT WITH THE TOPS UPWARD.
- M. HORIZONTAL STRAPS MAY BE USED IN LIEU OF LOAD STRAPS. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE TOP OF EACH LAYER. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.



PALLET UNIT

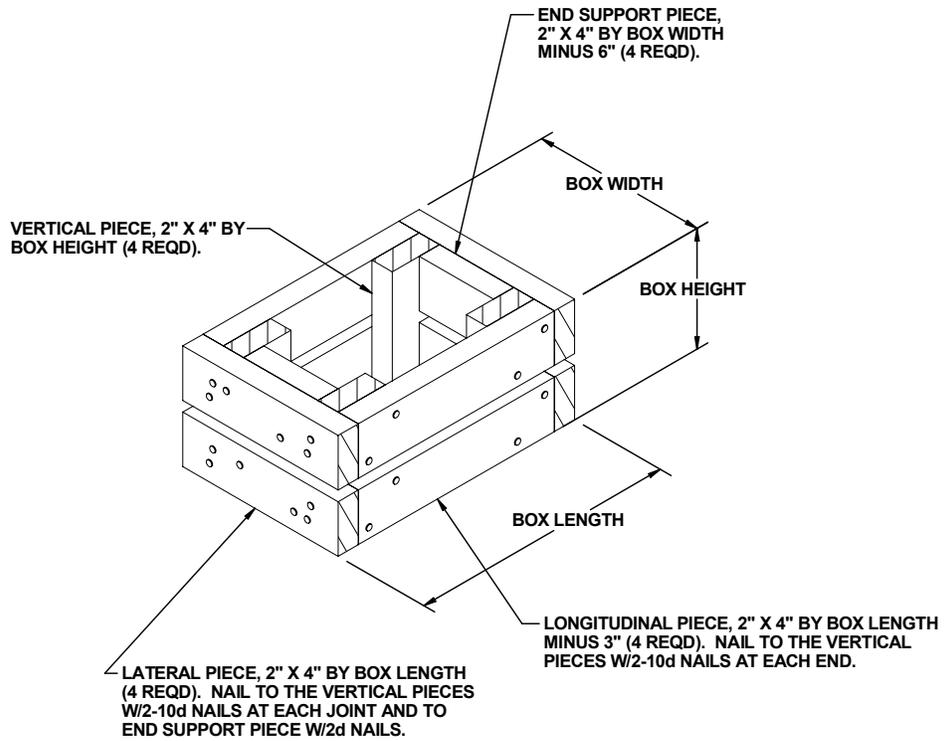
SEE GENERAL NOTE "B" AT RIGHT.

40 BOXES OF .30 CAL @ 60 LBS PER BOX	-----	2,400 LBS
DUNNAGE	-----	8 LBS
PALLET	-----	65 LBS

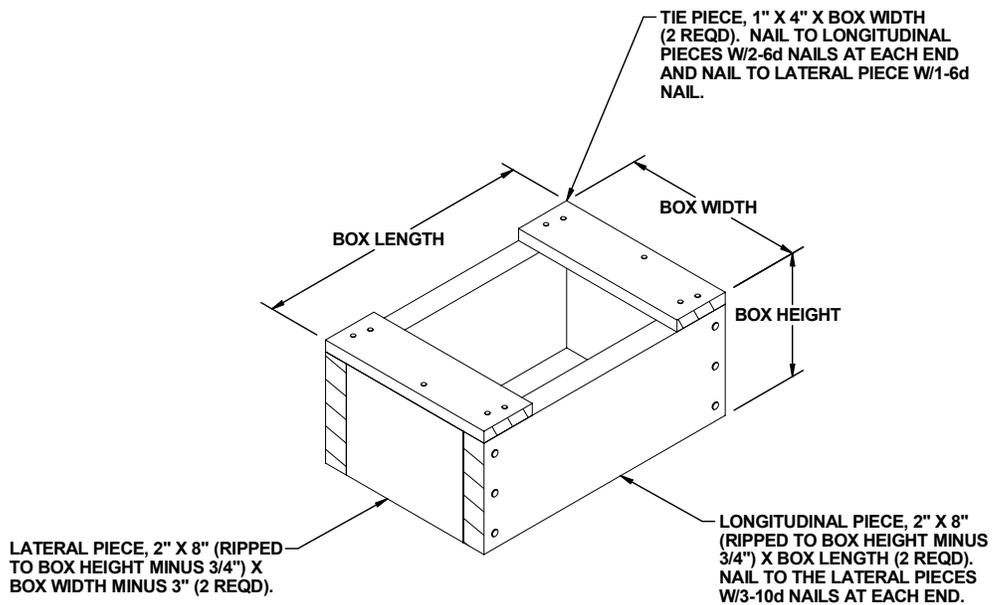
TOTAL WEIGHT ----- 2,473 LBS (APPROX)
 CUBE ----- 42.4 CU FT (APPROX)

BILL OF MATERIAL

PALLET, 35" X 45-1/2"	-----	1 REQD	-----	65 LBS
STEEL STRAPPING, 3/4"	-----	86.17' REQD	-----	7.69 LBS
SEAL FOR 3/4" STRAPPING	-----	6 REQD	-----	NIL



FILLER ASSEMBLY
(FOR MINUS ONE BOX)



ALTERNATIVE FILLER ASSEMBLY
(FOR MINUS ONE BOX
SEE GENERAL NOTE "K" ON PAGE 3)